## MONTANA CONSERVATION SEEDLING NURSERY

2705 Spurgin Road; Missoula, MT 59804 **(406) 542-4244** FAX 542-4203 **www.dnrc.mt.gov/forestry/nursery** 

Spring 2009 Seedling Availability and Seed Sources August 1st, 2008

- PLEASE NOTE PRICE STRUCTURE BASED ON QUANTITY ORDERED PER SPECIES.
- Order bareroot seedlings in multiples of 50 and containerized and evergreen seedlings in multiples of 25. 100 cubic inch containerized seedlings can be ordered in multiples of 8.
- In most cases, bareroot plant heights are: 1 year, 12-18"

2 year, 16-24"

3 year, 22-28"

Many of our species are produced from MITOSIS seed. MITOSIS is the Montana Interagency Tree and Shrub Improvement Study. The study was a cooperative effort to evaluate the performance various species of plants in established Montana plantings. The selected plantings were evaluated for over ten years and the best performing plants were selected for seed orchard establishment at the nursery.

We use this seed source whenever possible. These selections perform well in many of Eastern Montana's variable and harsh climates. Although these plants have not been tested in every environment, MITOSIS selections are some of the best plant materials available for use in Montana. The selections are proven to survive in Montana because they were evaluated in Montana <u>not</u> other Northern Great Plains states.

Bareroot Shrubs (Order in Lots of 50)								
Common Name	Seed Sources	Age	100 or less	150-1950	2000+	Estimated Inventory		
Buffaloberry, Silver	North Dakota	2 yr	\$0.76	\$0.55	\$0.47	5000		
Sheperdia argentea		3 yr	\$0.88	\$0.67	\$0.57	4500		
Caragana <i>aborescens</i>	Nursery Windbreaks	2 yr	\$0.65	\$0.44	\$0.37	75000		
Cherry, Nanking Prunus tomentosa	North Dakota	1 yr	\$0.69	\$0.48	\$0.41	1750		
Cherry, Sand Prunus besseyi	North Dakota	2 yr	\$0.82	\$0.61	\$0.52	2000		
Chokecherry	North Dakota	1 yr	\$0.67	\$0.46	\$0.40	14000		
Prunus virginieana	MITOSIS	1 yr	\$0.67	\$0.46	\$0.40	11000		
Chokecherry, Canada Red Prunus virginiana Schubert	Shubert Variety	1 yr	\$0.71	\$0.50	\$0.43	4000		
Cotoneaster, Centennial Cotoneaster interrrima	MITOSIS	1 yr	\$0.80	\$0.59	\$0.50	1500		
Current, Golden Ribes odeoratum	Unknown	1 yr	\$0.71	\$0.50	\$0.43	6000		
Dogwood, Red-Osier	North Dakota	1 yr	\$0.76	\$0.55	\$0.47	1500		
Cornus sericea	Lower Clark Fork	1 yr	\$0.76	\$0.55	\$0.47	1500		
	Kootenai	2 yr	\$0.86	\$0.65	\$0.56	1000		
	North Dakota	2 yr	\$0.86	\$0.65	\$0.56	7500		
	Lower Clark Fork	2 yr	\$0.86	\$0.65	\$0.56	5500		
Honeysuckle, Blue-leaf	MITOSIS	1 yr	\$0.71	\$0.50	\$0.43	3000		
Lonicera korolkowii		2 yr	\$0.82	\$0.61	\$0.52	3500		
Lilac, Common	North Dakota 6-10" Tall	2 yr	\$0.71	\$0.50	\$0.43	2000		
Syringa villosa	North Dakota, > 10" Tall	2 yr	\$0.80	\$0.59	\$0.50	20000		
Lilac, Late Syringa villosa	North Dakota	2 yr	\$0.80	\$0.59	\$0.50	100		
Rose, Woods	Clark Fork, 4300'	1 yr	\$0.76	\$0.55	\$0.47	750		
Rosa woodsii	North Dakota	1 yr	\$0.76	\$0.55	\$0.47	6000		
	Ravalli County, 3500'	1 yr	\$0.76	\$0.55	\$0.47	8000		

Ва	reroot Shrubs Contir	nued	(Order in L	ots of 50)		
Common Name	Seed Sources	Age	100 or less	150-1950	2000+	Estimated Inventory
Sagebrush, Wyoming Big Artmesia cana	Wyoming	1 yr	\$0.74	\$0.53	\$0.45	1500
Saltbush, Fourwing Gardner x	South Dakota	1 yr	\$0.86	\$0.65	\$0.56	1500
Atriplex canescens x gardneri		2 yr	\$0.97	\$0.76	\$0.65	450
Silverberry <i>Elaeagnus commutata</i>	Unknown	2 yr	\$0.84	\$0.63	\$0.54	2000
Snowberry, Western	Bridger	1 yr	\$0.80	\$0.59	\$0.50	1250
Symphoricarpos occidentalis	-	2 yr	\$0.90	\$0.69	\$0.58	5000
Sumac, Skunk	Bighorn County	2 yr	\$0.80	\$0.59	\$0.50	3000
Rhus trilobata	Jefferson County	2 yr	\$0.80	\$0.59	\$0.50	800
Willow, Booth <i>Salix boothii</i>	Warm Springs, MT	1 yr	\$0.84	\$0.63	\$0.55	750
Willow, Drummond Salix drummondiana	Warm Springs, MT	1 yr	\$0.80	\$0.59	\$0.50	1600
Willow, Pacific Salix, lasiandra	Clark Fork River, MT	1 yr	\$0.80	\$0.59	\$0.50	750
Willow, Sandbar	Bitterroot River, MT 3,200'	1 yr	\$0.80	\$0.59	\$0.50	900
Salix exigua	Clark Fork, MT 2,600'	1 yr	\$0.80	\$0.59	\$0.50	1000
	Clark Fork, MT 3,800'	1 yr	\$0.80	\$0.59	\$0.50	450
	Clark Fork, MT 4,400'	1 yr	\$0.80	\$0.59	\$0.50	500
	Livingston, MT	1 yr	\$0.80	\$0.59	\$0.50	500
	Mill Creek, MT 4,900'	1 yr	\$0.80	\$0.59	\$0.50	1500
	Mission Valley, MT 3,300'	1 yr	\$0.80	\$0.59	\$0.50	400
	Teton River, Mt	1 yr	\$0.80	\$0.59	\$0.50	500
	Three Forks, MT	1 yr	\$0.80	\$0.59	\$0.50	2500
	Warm Springs, MT	1 yr	\$0.80	\$0.59	\$0.50	1250
	Yellowstone County, MT 4,000' Dry Site	1 yr	\$0.80	\$0.59	\$0.50	1500
	Yellowstone River, MT 3,000' Wet Site	1 yr	\$0.80	\$0.59	\$0.50	2000
Willow, Yellow Salix lutea	Swan & Mission	1 yr	\$0.84	\$0.63	\$0.54	950

Bareroot Deciduous Trees (Order in Lots of 50)										
Common Name	Seed Source	Age	100 or less	150-1950	2000+	Estimated Inventory				
Ash, Green	MITOSIS	2 yr	\$0.71	\$0.50	\$0.43	6000				
Fraxinus pennsylvanica		3 yr	\$0.82	\$0.61	\$0.52	2000				
Cherry, Black <i>Prunus serotina</i>	MITOSIS	2 yr	\$0.80	\$0.59	\$0.50	1250				
Cottonwood, Black	Bitterroot, MT 3,200'	1 yr	\$0.80	\$0.59	\$0.50	800				
Populus, trichocarpa	Clark Fork, MT 2,600'	1 yr	\$0.80	\$0.59	\$0.50	750				
	Livingston, MT	1 yr	\$0.80	\$0.59	\$0.50	100				
	Mill Creek, MT 4,900'	1 yr	\$0.80	\$0.59	\$0.50	600				
	Rock Creek, MT 4,000'	1 yr	\$0.80	\$0.59	\$0.50	550				
	Three Forks. MT	1 yr	\$0.80	\$0.59	\$0.50	1500				
Cottonwood, Daniels <i>Populus deltoides</i>	Cottonless, Daniels Cty. MT	1 yr	\$0.78	\$0.57	\$0.48	7000				
Cottonwood, Narrowleaf <i>Populus angustifolia</i>	Shields River, MT	1 yr	\$0.84	\$0.63	\$0.54	250				

Bar	Bareroot Deciduous Trees Continued (Order in Lots of 50)									
Common Name	Seed Source	Age	100 or less	150-1950	2000+	Estimated Inventory				
Cottonwood, Plains	MITOSIS	1 yr	\$0.78	\$0.57	\$0.48	2550				
Populus, deltoides	Teton River, MT	1 yr	\$0.78	\$0.57	\$0.48	750				
Crabapple, Midwest Malus baccata var.mandshurica	"Midwest Release"	2 yr	\$0.80	\$0.59	\$0.50	2000				
Elm, Siberian <i>Ulmus pumila</i>	Unknown	2 yr	\$0.71	\$0.50	\$0.43	1300				
Hackberry	South Dakota	2 yr	\$0.69	\$0.48	\$0.41	200				
Celtis occidentalis		3 yr	\$0.80	\$0.59	\$0.50	300				
Hawthorn, Arnold <i>Crataegus arnoldiana</i>	MITOSIS	1 yr	\$0.78	\$0.57	\$0.48	1500				
Hawthorn, Black <i>Crataegus douglasii</i>	Lower Clark Fork, MT	1 yr	\$0.84	\$0.63	\$0.54	3000				
Maple, Amur	MITOSIS	1 yr	\$0.78	\$0.57	\$0.48	4000				
Acer ginnala		2 yr	\$0.88	\$0.57	\$0.58	3000				
Poplar, Prairie Sky <i>Populus x</i>	"Prairie Sky" Release	1 yr	\$0.80	\$0.59	\$0.50	3800				
Willow, Golden Salix, alba	MCSN Nursery	1 yr	\$0.78	\$0.57	\$0.48	2400				

	Bareroot Conifers (Order in Lots of 25)									
Common Name	Seed Source	Age	100 or less	125-1975	2000+	Estimated Inventory				
Pine, Ponderosa, East	Hunter Select	2 yr	\$0.61	\$0.42	\$0.35	1300				
Pinus ponderosa	Hunter Select	3 yr	\$0.71	\$0.50	\$0.43	650				
	Black Hills	3 yr	\$0.71	\$0.50	\$0.43	250				
Pine, Ponderosa, West	Missoula County 3,200'	2 yr	\$0.61	\$0.42	\$0.35	1000				
Pinus ponderosa	Missoula County 3,400'	3 yr	\$0.71	\$0.50	\$0.43	1200				
Pine, Scotch  Pinus sylvestris	Republic of Georgia	3 yr	\$0.71	\$0.50	\$0.43	1000				
Spruce, Blue	San Isabel N.F.	3 yr	\$0.71	\$0.50	\$0.43	500				
Picea pungens		4 yr	\$0.82	\$0.61	\$0.52	2000				

## **CONTAINER GROWN SEEDLINGS**

5 Cubic I	5 Cubic Inch Containerized Seedlings (Order in lots of 25), All 1 year old								
Common Name	Seed Source	Height	100 or less	125-1975	2000+	Estimated Inventory			
Fescue, Rough Festuca campestris		5-8"	\$0.60	\$0.30	\$0.37	500			
Larch, Western Larix occidentalis	Seeley Lake, 4,000'	5-8"	\$0.80	\$0.50	\$0.43	2775			
Pine, Ponderosa, West	Ravalli County. 4,100'	5-8"	\$0.80	\$0.50	\$0.43	4850			
Pinus ponderosa	Ravalli County. 5,500'	5-8"	\$0.80	\$0.50	\$0.43	5500			
Wheatgrass, Bluebunch	USDA "Goldar" Release	3-6"	\$0.60	\$0.30	\$0.27	600			
Pseudoroegneria spicata	USDA "Secar" Release	3-6"	\$0.60	\$0.30	\$0.27	600			
Wildrye, Basin Leymus occidentalis		3-6"	\$0.60	\$0.30	\$0.27	2000			

7 Cubic Inch Containerized Seedlings (Order in lots of 25), All 1 year old									
Common Name	Seed Source	Height	100 or less	125-1975	2000+	Estimated Inventory			
Fir, Douglas, East Pseudotsuga menziesii	Lewis & Clark NF, 6,000'		\$0.95	\$0.63	\$0.54	4400			
Fir, Douglas, West	Bitterroot NF, 5,000'		\$0.95	\$0.63	\$0.54	1700			
Pseudotsuga menziesii	Kootenei, 4,000'		\$0.95	\$0.63	\$0.54	2050			
Larch, Western Larix occidentalis	Seeley Lake, 4,000'		\$0.95	\$0.61	\$0.52	8750			
Pine, Austrian <i>Pinus nigra</i>	Republic of Georgia		\$0.95	\$0.61	\$0.52	1500			
Pine, Lodgepole  Pinus contorta	Deer Lodge, Silverbow County		\$0.95	\$0.61	\$0.52	2900			
Pine, Ponderosa, East Pinus ponderosa	Custer County		\$0.95	\$0.61	\$0.52	6275			
Pine, Ponderosa, West	Missoula County, 3,200'		\$0.95	\$0.61	\$0.52	6500			
Pinus ponderosa	Ravalli County, 5,500'		\$0.95	\$0.61	\$0.52	6500			
Pine, Scotch  Pinus sylvestrus	Unknown		\$0.95	\$0.61	\$0.52	825			
Pine, White Pinus monticola	Blister Rust Resistant		\$0.95	\$0.61	\$0.52	1400			
Spruce, Blue Picea pungens	San Isabel NF		\$0.95	\$0.61	\$0.52	4700			

10 Cubic I	nch Containerized Se	edlings (O	rder in lot	s of 25),	All 1 yea	ar old
Common Name	Seed Source	Height	100 or less	125-1975	2000+	Estimated Inventory
Alder, Thinleaf  Alnus incana	Blackfoot , 4,300'		\$1.40	\$1.05	\$0.90	1000
Aspen Populus tremuloides	Ravalli County, 3,700'		\$1.40	\$1.05	\$0.90	4000
Birch, River Betula occidentalis	Rock Creek, 4,400'		\$1.40	\$1.05	\$0.90	1200
Dogwood, Red-Osier Cornus sericea			\$1.40	\$1.05	\$0.90	250
Juniper, Rocky Mountain <i>Juniperus scopulorum</i>	Bridger Select		\$1.40	\$1.05	\$0.90	3650
Larch, Western  Larix occidentalis	Seeley Lake, 4,000'		\$1.40	\$1.05	\$0.90	5225
Pine, Ponderosa East	Crow Reservation		\$1.40	\$1.05	\$0.90	19750
Pinus ponderosa	Treasure County		\$1.40	\$1.05	\$0.90	2775
Pine, Ponderosa West	Missoula, 3,200'		\$1.40	\$1.05	\$0.90	3675
Pinus ponderosa	Ravalli County, 4,100'		\$1.40	\$1.05	\$0.90	2800
	Ravalli County, 5,500'		\$1.40	\$1.05	\$0.90	3450
Rabbitbrush <i>Ericameria nauseosa</i>	Anaconda		\$1.40	\$1.05	\$0.90	700
Sagebrush, Wyoming, Big Artemisia tridentata	Wyoming		\$1.40	\$1.05	\$0.90	700
Serviceberry  Amelanchier alnifolia	Sanders County		\$1.40	\$1.05	\$0.90	700

30 Cubic I	nch Containerized Seedli	ngs (O	rder in lo	ts of 25)	, 1-2 year	s old
Common Name	Seed Source	Height	100 or less	125- 1975	2000+	Estimated Inventory
Aspen	Ravalli County, 3,700'		\$1.90	\$1.50	\$1.26	2000
Populus tremuloides						
Buffaloberry			\$2.00	\$1.60	\$1.35	300
Sheperdia argentea					**	
Chokecherry Prunus virginiana	Clark Fork, 3,800'		\$2.00	\$1.60	\$1.35	300
Cottonwood, Black Populus tricocarpa	Rock Creek, 4,000'		\$2.00	\$1.60	\$1.35	150
Cottonwood, Plains, Daniels Populus deltoides			\$2.00	\$1.60	\$1.35	250
Currant, Golden	Unknown		\$2.00	\$1.60	\$1.35	300
Ribes odoratum			,	, , , ,	,	
Juniper, Rocky Mountain  Juniperous scopularum	Bridger Select		\$2.25	\$1.90	\$1.58	3000
Larch, Western  Larix occidentalis			\$1.90	\$1.60	\$1.35	2350
Oak, Bur Quercus macrocarpa	Bridger Select		\$2.00	\$1.60	\$1.35	1500
Pine, Austrian  Pinus nigra	Republic of Georgia		\$2.00	\$1.60	\$1.35	2000
Pine, Limber			\$2.20	\$1.70	\$1.44	1200
Pinus flexilis Pine, Lodgepole	Deer Lodge, Silverbow Counties		\$2.00	\$1.70	\$1.44	800
Pine, Lougepole Pinus contorta	Deer Louge, Silverbow Counties		\$2.00	\$1.70	\$1.44	000
Pine, Ponderosa, East Pinus ponderosa	Treasure County		\$2.00	\$1.60	\$1.35	9500
Pine, Ponderosa, West Pinus ponderosa	Missoula County, 3,200'		\$2.00	\$1.60	\$1.35	225
, , , , , , , , , , , , , , , , , , , ,	Ravalli County, 5,500'		\$2.00	\$1.60	\$1.35	4000
	Sanders County, 3,800'		\$2.00	\$1.60	\$1.35	5000
Pine, Scotch  Pinus sylvestrus	Unknown		\$2.00	\$1.60	\$1.35	1200
Serviceberry  Amelanchier alnifolia	Sanders County		\$1.85			
Snowberry, Common Symphocarpus alba	Blackfoot, Prospect		\$2.00	\$1.60	\$1.35	750
Spruce, Black Hills	South Dakota		\$2.00	\$1.60	\$1.35	900
Picea glauca densata	South Bakota		Ψ2.00	Ψ1.00	Ψ1.00	700
Spruce, Blue Picea pungens	San Isabel, N.F.		\$2.00	\$1.60	\$1.35	4500
Spruce, Engelmann  Picea engelmannii	Lolo, N.F.		\$2.00	\$1.60	\$1.35	375
Willow, Sandbar	Mill Creek, 4,900'		\$1.90	\$1.60	\$1.35	200
Salix exigua Willow, Sandbar Salix exigua	Yellowstone County, 4,000'		\$1.90	\$1.60	\$1.35	200

100 Cubic	100 Cubic Inch Containerized Seedlings (Order in lots of 8), All 2-3 years old								
Common Name	Species	Seed Source	Height	40 or less	> 40	Estimated Inventory			
Alder, Thinleaf	Alunus incana			\$6.00	\$5.00	24			
Ash, Green	Fraxinus pennsylvanica			\$6.00	\$5.00	144			
Aspen	Populus tremuloides			\$6.00	\$5.00	500			
Birch, River	Betula occidentalis			\$6.00	\$5.00	64			
Buffaloberry	Sheperdia argentia			\$6.00	\$5.00	88			
Caragana	Caragana aborescens			\$6.00	\$5.00	168			
Chokecherry	Prunus virginiana			\$6.00	\$5.00	128			
Cottonwood, Daniels	Populus deltoides			\$6.00	\$5.00	56			
Current, Golden	Ribes odoratum			\$6.00	\$5.00	88			
Dogwood, Red-Osier	Cornus sericea			\$6.00	\$5.00	88			
Fir, Douglas, East	Pseudotsuga menziesii	Lewis & Clark NF,6000'		\$6.00	\$5.00	72			
Fir, Douglas, West	Pseudotsuga menziesii			\$6.00	\$5.00	56			
Hawthorn, Arnold	Crataegis arnoldiana			\$6.00	\$5.00	32			
Juniper, Rocky Mountain	Juniperous scopulorum			\$6.00	\$5.00	1180			
Lilac, Common	Syrniga vulgaris			\$6.00	\$5.00	128			
Maple, Amur	Acer ginnala			\$6.00	\$5.00	32			
Pine, Lodgepole	Pinus contorta			\$6.00	\$5.00	40			
Pine, Ponderosa East	Pinus ponderosa			\$6.00	\$5.00	800			
Pine, Ponderosa West	Pinus ponderosa			\$6.00	\$5.00	700			
Pine, Scotch	Pinus sylvestrus			\$6.00	\$5.00	144			
Spruce, Black Hills	Picea glauca densata			\$6.00	\$5.00	120			
Spruce, Blue	Picea pungens			\$6.00	\$5.00	900			
Spruce, Engelmann	Picea Engelmannii			\$6.00	\$5.00	24			
Willow, Drummond	Salix drummondiana	Warm Springs, 6000'		\$6.00	\$5.00	32			
Willow, Sandbar	Salix exigua	Mill Creek		\$6.00	\$5.00	32			

	OTHER ITEMS	
Item	Description	Price
Wildlife Packet	Wildlife packets contain 250 seedlings, 50 seedlings each of three shrub species, one deciduous tree species, and one evergreen species. The species included are chosen for their benefits in bird habitat plantings but most species also provide benefits to mammals large and small. The nursery will select the species best suited for your area. You are not allowed to select the species. Potential shrub species include Caragana, chokecherry, golden currant, Nanking cherry, sand cherry, silver buffaloberry, skunk sumac, and woods rose. Potential tree species include Arnold Hawthorn, green ash, hackberry, and Midwest crabapple. Potential evergreens are blue spruce, lodgepole pine, ponderosa pine, and Scotch pine. To order write Wildlife Packet under common name.	\$150.00
Plantskydd Deer Repellant, 2.2 Lbs. Powder	We offer Plantskydd animal repellent. Although no repellent is 100% guaranteed to work our foresters and customers have found Plantskydd to be very effective for up to six months. The powder needs to be mixed with water and sprayed on the plants. The 2.2 pound box will treat 300 to 500 conifer seedlings or 150 to 300 deciduous seedlings.	\$40.00
Plantskydd Deer Repellant, 5.0 Liter Liquid	We offer Plantskydd animal repellent. Although no repellent is 100% guaranteed to work our foresters and customers have found Plantskydd to be very effective for up to six months. The liquid requires no mixing. The 5.0 liter bottle will treat 300 to 500 conifer seedlings or 150 to 300 deciduous seedlings.	\$50.00
Rigid Seedling Protector Tubes	Rigid 18" x 4" net tube physically prevents big game browse. Photodegradable material breaks down in four to six years. Comes with 3-foot bamboo stake for installation. Order in Multiples of 100.	\$50.00 per 100
3x3 Foot Weed Control Fabric Squares	3.0 oz polypropylene woven ground cover. Use around individual seedlings for complete, non-chemical weed control and soil moisture retention. The fabric is U.V. stabilized and permeable to water and air. Use of weed fabric can increase survival and growth rates in your planting. Order in Multiples of 100.	\$75.00 per 100

